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	LTH AND HUMAN SERVIC JG ADMINISTRATION	ES			
DISTRICT OFFICE ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION			
Director, Division of Inspections and Surveillance FDA / CBER / Office of Compliance and Biologics Quality 10903 New Hampshire Avenue (W071-5128) TEL: 240-402-9159 Silver Spring, MD 20993-0002 CBER483responses@fda.hhs.gov		2/20-28/2023			
		FEINUMBER			
		3010479596			
Industry Information: www.fda.gov/oc/industry					
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED					
TO: Mr. Sam MacHour, Executive Vice President/Chief Quality					
FIRM NAME	STREET ADDRESS				
Samsung Biologics Co., Ltd.	300 Songdo bio-daero,				
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INSPECTED				
Yeonsu-gu, Incheon, 21987, Republic of Korea	Licensed Biological Manufacturer				
THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTAT OBSERVATIONS; AND DO NOT REPRESENT A FINAL AGENCY DETERMINATION OBSERVATION, OR HAVE IMPLEMENTED, OR PLAN TO IMPLEMENT CORRESPICTION OR ACTION WITH THE FDA REPRESENTATIVE(S) DURING THE IN YOU HAVE ANY QUESTIONS, PLEASE CONTACT FDA AT THE PHONE NUMBER OF DURING AN INSPECTION OF YOUR FIRM (ME) OBSERVED:	N REGARDING YOUR COMP ECTIVE ACTION IN RESPON ISPECTION OR SUBMIT THIS	LIANCE. IF YOU HAVE AN OB.	JECTION REGARDING AN YOU MAY DISCUSS THE		
1. The responsibilities and procedures applicable to the of following deviations reported that the initial Quality Co data discrepancy, data handling, and calculation errors Specifically,	ntrol Unit review of	the referenced record	ds did not identify		
(b) (d)	2 2222 1 .	(b) (4	1)		
a) Deviation Report, DEV- (b) (4) reported on Februar					
		a for Technical Repo	rt TR- (D) (4)		
(b) (4) dated July 18, 2022 (inc		(b) (4)	and TR- (b) (4)		
(b) (4) Study Report, dated January, 2	020, a data discrep				
method (b) (4)			should be used for		
calculation. The (b) (4) analyst used	(D)	(4)			
(b) (4) for calculation. A follow up to ensure this calculation		r with a similar	(b) (4) test		
method (b)	(4)				
(b) (4) released batches, was not documented.					
b) Deviation Report, DEV. (b) (4) reported on January	18, 2023 during a	(b) (4)			
(b) (4) data review for	(b) (4)	, which was perf	ormed as part of		
TR- (b) (4) Study, dated January	, 2020, a QA revie	wer identified the fol	lowing data		
integrity violation. Specifically, during a data and audit trail review it was found that a single analyst reported that was valid by intentionally deleting the specified (b) (4) after (b) (4) was					
completed. The initial date of analysis was conducted on 31Oct2018. The DEV- (b) (4) conclusion was silent on					
whether (b) (4) was used in other	in-process or release	se methods for	(b) (4)		
c) Deviation Report, DEV- (b) (4) reported on 6/23/2021 that a CMC analyst discovered a calculation formula					
difference in the %deviation calculation formula between the old (b) (4)					
(b) (4) and the new	(b) (4)		The		
The same of the sa	19595746				
EMPI OYFFISH SIGNATURE	MPLOYEE(S) NAME AND TIT	LE (Print or Type)	DATE ISSUED		
SEE REVERSE					
OF THIS	Prabhu P. Raju, Investigato Laurel Beer, Investigator	DI .	02/28/2023		
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DEPAR	TMENT OF HEALTH AND HUMAN SERVIC FOOD AND DRUG ADMINISTRATION	ES			
DISTRICT OFFICE ADDRESS AND PHONE NUMBER  Director, Division of Inspections and Surveillance FDA / CBER / Office of Compliance and Biologics Quality 10903 New Hampshire Avenue (W071-5128)  TEL: 240-402-9159 Silver Spring, MD 20993-0002 CBER483responses@fda.hhs.gov Industry Information: www.fda.gov/oc/industry		DATE(S) OF INSPECTION 2/20-28/2023 FEI NUMBER	114.50		
		3010479596			
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FIRM NAME STREET ADDRESS		W.	E		
Samsung Biologics Co., Ltd. 300 Songdo bio-daer TY, STATE AND ZIP CODE TYPE OF ESTABLISHMEN					
Yeonsu-gu, Incheon, 21987, Republic of Korea  Licensed Biological					
(h) (A)	was configured to meet user requ				
procedures or detailed instructions for setti DEV. (b) (4) was silent on why this deviat CAPA activities. A (b) (4) Deviation is def (b) (4) A for	ion was not classified as (b) (4) at	nd Effective Checks (b) (4)	initiated for		
of previous Batch (b) (4) but (b) disposition/status of the (b) (4) was e) Deviation Report, DEV- (b) (4) dated 3 19Oct2022, Plant (b) (4) Teported batteries being sampling of (b) (4) Umbrella CA limited function of (b) (4) with new (b) (4)	from step (b) (4) should he for added was attach s not documented in DEV-  Jun2020, Plant Suite (b) (4) and D g removed from (b) (4  APA · (b) (4) opened in 8/28/2020  Equipment mentioned audit but was silent on whether ald be conducted.	eviation Report, DE equipme trail functions woul	ring preparation (b) (4) The  V- (b) (4) dated ent during nt to resolve d be implemented		
2. Non-Conforming Results Report, NCR- (b) (4) closed on 02/23/2023, titled (b) (4) NCR of (b) (4) requalification design" to determine (b) (4) of Reference Standard (b) (4) against itself caused "lower measurement" and caused the NCR for (b) (4) (i.e. (b) (4) Result: (b) (4) Spec: (b) (4)  Through the hypothesis test under (b) (4) dated 12/23/2022, it was proven that the actual (b) (4) of the (b) (4) Reference Standard (b) (4) measured with the WHO International Standard (b) (4) (b) (4) was higher than the assigned value tested against itself (b) (4) The root-cause was determined to be in the Re-qualification of (b) (4) Reference Standard (b) (4) (b) (4) dated 12/16/2021, for the (b) (4) requalification of Reference Standard against itself rather than against the external standard (primary reference standard which is the WHO International Standard).  Accumulation of (b) (4) requalifications of the (b) (4) standard caused by requalification against itself has accumulated into an underestimated value of the (b) (4) reference standard vs. the true value when calibrated EMPLOYEE(S) SIGNATURE EMPLOYEE(S) NAME AND TITLE (Print or Type)  DATE ISSUED					
SEE REVERSE OF THIS PAGE  /S/	Prabhu P. Raju, Investigator Laurel Beer, Investigator	r	02/28/2023		
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	ALTH AND HUMAN SERVIC RUG ADMINISTRATION	ES	
District Office Address and Phone Number  Director, Division of Inspections and Surveillance  FDA / CBER / Office of Compliance and Biologics Quality  10903 New Hampshire Avenue (W071-5128)  Tel: 240-402-9159  Silver Spring, MD 20993-0002 CBER483responses@fda.hhs.gov  Industry Information: www.fda.gov/oc/industry		DATE(S) OF INSPECTION 2/20-28/2023 FEI NUMBER	
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NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED  TO: Mr. Sam MacHour, Executive Vice President/Chief Quality	Officer Quality Center		
FIRM NAME	STREET ADDRESS		
Samsung Biologics Co., Ltd.	300 Songdo bio-daero,		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INSPECTED		
Yeonsu-gu, Incheon, 21987, Republic of Korea	Licensed Biological Manufacturer		
against the WHO standard. This resulted in reporting a (b) (4) The original NCR (b) (4) te (b) (4) was retested against the WHO (b) (4) assimpact assessment did not include an assessment of the	st was invalidated whi igned reference standa	en the Reference Sta ard. The root cause i	ndard (b) (4)
2/3/2023, continues to be deficient as it instructs for (replicates (b) (4) which is not supported by the observer requalifications are performed based on (b) (4) measure replicates has not been evaluated).  b) There was a failure to identify/assess the variability	ed high variability of tements which can be very of the test method,	he (b) (4) variable, and a higher (b) (4	(i.e., (b) (4) number of test
(b) (4) '' (b) (4) , dated 10/25/2022, and requalification, which is based on (b) (4) measurements c) There was a failure to identify the root-causes for th (2017-2022) of reference standard (b) (4) and compurpose.	5.		requalifications
3. Certificates of Quality (COQ or COA) for incoming (b) (4) are accepted and lots are released wi containers and without appropriate validation of the su	thout a visual identific	cation being conduct appropriate intervals	ed on the
(b) (4) (b) (4)	(A	en accepted and relea	ased for use in
manutacturing based on reliance of the supplier's COC Additionally, the firm has not validated the supplier's been used in the final (b) (4) of the batches of (b) (4) of these batches have been released.	without at least a vis test results at appropri	sual identification of	the containers.
EMPLOYFF(S)-SIGNATI IRE	EMPLOYEE(S) NAME AND TITI	E (Print or Type)	DATE ISSUED
SEE REVERSE OF THIS PAGE	Prabhu P. Raju, Investigator Laurel Beer, Investigator	e mentre en	02/28/2023

The observations of objectionable conditions and practices listed on the front of this form are reported:

- 1. Pursuant to Section 704(b) of the Federal Food, Drug and Cosmetic Act, or
- To assist firms inspected in complying with the Acts and regulations enforced by the Food and Drug Administration.

Section 704(b) of the Federal Food, Drug, and Cosmetic Act (21 USC 374(b)) provides:

"Upon completion of any such inspection of a factory, warehouse, consulting laboratory, or other establishment, and prior to leaving the premises, the officer or employee making the inspection shall give to the owner, operator, or agent in charge a report in writing setting forth any conditions or practices observed by him which, in his judgement, indicate that any food, drug, device, or cosmetic in such establishment (1) consists in whole or in part of any filthy, putrid, or decomposed substance, or (2) has been prepared, packed, or held under insanitary conditions whereby it may have become contaminated with filth, or whereby it may have been rendered injurious to health. A copy of such report shall be sent promptly to the Secretary."